

Application No.: 10/521,173
Amendment under 37 CFR 1.116
Reply to Office Action dated October 28, 2008
December 16, 2008

AMENDMENTS TO THE CLAIMS

Please substitute the following claims for the pending claims with the same numbers respectively:

Claims 1-2 (Cancelled):

Claim 3 (Currently amended): An aerosol particle charging device comprising:

a chamber;

an electric field generation section which includes electrode plates arranged on both surfaces facing each other [[of]] in said chamber and generates an electric field from an irradiating section to a non-irradiating section ~~of an X-ray~~ within said chamber;

an X-ray emitting section which is arranged facing said chamber and emits an X-ray to said irradiating section of said chamber having a main wavelength within a range of 0.13 nm to 2 nm;

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an inlet duct which is arranged in the X-ray non-irradiating section of said chamber and flows gas including aerosol particles to be processed into said chamber; and

a outlet duct which is arranged at a position facing said inlet duct of the X-ray non-irradiating section of said chamber and exhausts the processed aerosols from said chamber.

Claim 4 (Previously presented): The aerosol particle charging device according to claim 3, wherein said X-ray emitting section includes a powered switch to control the amount of or to stop the emission of the X-ray.

Claim 5 (Cancelled):

Claim 6 (Previously presented): The aerosol particle charging device according to claim 4, wherein said inlet and outlet duct face each other.

Claim 7 (Previously presented): The aerosol particle charging device according to claim 4, wherein said electric field generation section comprises a direct current high voltage power source.

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Claim 8 (Currently amended): An aerosol particle charging device comprising:

a chamber;

an inlet duct which ~~flows~~ is arranged at one end of said chamber and allows a flow of gas including aerosol particles to be processed into said chamber;

a outlet duct which is arranged at another end of said chamber and exhausts the processed aerosols from said chamber;
[[and]]

an X-ray emitting section which is arranged closer to said inlet duct than said outlet duct, said X-ray emitting section facing said chamber and emits an X-ray having a main wavelength within a range of 0.13 nm to 2 nm; and

a rectifying plate which is arranged closer to said outlet duct than said inlet duct in said chamber, said rectifying plate dividing said chamber into a section with said inlet duct and a section with said outlet duct, and said rectifying plate having a plurality of openings for rectifying air flow in said chamber.

Claim 9 (Previously presented): The aerosol particle charging device according to claim 8, wherein said X-ray emitting

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section includes a powered switch to control the amount of or to stop the emission of the X-ray.

Claim 10 (Cancelled):